



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/070,387
Source: PCT/US
Date Processed by STIC: 3-21-2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office,
Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 10/070, 38.7

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 Wrapped Nucleic
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.

3 Misaligned Amino
Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5 Variable Length Sequences(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 PatentIn 2.0
"bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7 Skipped Sequences
(OLD RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8 Skipped Sequences
(NEW RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000

9 Use of n's or Xaa's
(NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10 Invalid <213>
Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence

11 Use of <220>
Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

12 PatentIn 2.0
"bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.



PCT10

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/070,387

DATE: 03/21/2002
TIME: 14:51:31

Input Set : A:\EP.txt
Output Set: N:\CRF3\03212002\J070387.raw

3 <110> APPLICANT: Meiji Seika Kaisha, Ltd.
5 <120> TITLE OF INVENTION: Cyclic depsipeptide synthetase and its gene and mass
duction system of
6 cyclic
7 depsipeptide
9 <130> FILE REFERENCE: 127184
> 11 <140> CURRENT APPLICATION NUMBER: US/10/070,387
> 11 <141> CURRENT FILING DATE: 2002-03-06
11 <150> PRIOR APPLICATION NUMBER: JP 253040/1999
12 <151> PRIOR FILING DATE: 1999-09-07
14 <150> PRIOR APPLICATION NUMBER: JP 104291/2000
15 <151> PRIOR FILING DATE: 2000-04-06
17 <160> NUMBER OF SEQ ID NOS: 21
19 <170> SOFTWARE: PatentIn Ver. 2.1

Does Not Comply
Corrected Diskette Needed
See Additional Page 1

SCORED SEQUENCES

868 <210> SEQ ID NO: 2
869 <211> LENGTH: 3210
870 <212> TYPE: PRT
871 <213> ORGANISM: Mycelia sterilia
873 <400> SEQUENCE: 2
874 Met Ser Asn Met Ala Pro Leu Pro Thr Met Gly Val Glu Gln Gln Ala
875 1 5 10 15
877 Leu Ser Leu Ser Cys Pro Leu Leu Pro His Asp Asp Glu Lys His Ser
878 20 25 30
880 Asp Asn Leu Tyr Glu Gln Ala Thr Arg His Phe Gly Leu Ser Arg Asp
881 35 40 45
883 Lys Ile Glu Asn Val Leu Pro Cys Thr Ser Phe Gln Cys Asp Val Ile
884 50 55 60
886 Asp Cys Ala Val Asp Asp Arg Arg His Ala Ile Gly His Val Val Tyr
887 65 70 75 80
889 Asp Ile Pro Asn Thr Val Asp Ile Gln Arg Leu Ala Ala Ala Trp Lys
890 85 90 95
892 Glu Val Val Arg Gln Thr Pro Ile Leu Arg Thr Gly Ile Phe Thr Ser
893 100 105 110
895 Glu Thr Gly Asp Ser Phe Gln Ile Val Leu Lys Glu Gly Cys Leu Pro
896 115 120 125
898 Trp Met Tyr Ala Thr Cys Leu Gly Met Lys Gly Ala Val Ile Gln Asp
899 130 135 140
901 Glu Ala Val Ala Ala Met Thr Gly Pro Arg Cys Asn Arg Tyr Val Val
902 145 150 155 160
904 Leu Glu Asp Pro Ser Thr Lys Gln Arg Leu Leu Ile Trp Thr Phe Ser

RAW SEQUENCE L NG
PATENT APPLICATION: US/10/070,387

DATE: 1/2002
TIME: 14:51:32

Input Set : A:\EP.txt
Output Set: N:\CRF3\03212002\J070387.raw

905	165	170	175
907 His Ala Leu Val Asp Tyr Thr Val Gln Glu Arg Ile Leu Gln Arg Val			
908 180 185 190			
910 Leu Thr Val Tyr Asp Gly Arg Asp Val Glu Cys Pro Arg Ile Lys Asp			
911 195 200 205			
913 Thr Glu His Val Ser Arg Phe Trp Gln Gln His Phe Glu Gly Leu Asp			
914 210 215 220			
916 Ala Ser Val Phe Pro Leu Leu Pro Ser His Leu Thr Val Cys Asn Pro			
917 225 230 235 240			
919 Asn Ala Arg Ala Glu His His Ile Ser Tyr Thr Gly Pro Val Gln Arg			
920 245 250 255			
922 Lys Trp Ser His Thr Ser Ile Cys Arg Ala Ala Leu Ala Val Leu Leu			
923 260 265 270			
925 Ser Arg Phe Thr His Ser Ser Glu Ala Leu Phe Gly Val Val Thr Glu			
926 275 280 285			
928 Gln Ser His Asn Ser Glu Asp Gln Arg Arg Ser Ile Asp Gly Pro Ala			
929 290 295 300			
931 Arg Thr Val Val Pro Ile Arg Val Leu Cys Ala Pro Asp Gln Tyr Val			
932 305 310 315 320			
934 Ser Asp Val Ile Gly Ala Ile Thr Ala His Glu His Ala Met Arg Gly			
935 325 330 335			
937 Phe Glu His Ala Gly Leu Arg Asn Ile Arg Arg Thr Gly Asp Asp Gly			
938 340 345 350			
940 Ser Ala Ala Cys Gly Phe Gln Thr Val Leu Leu Val Thr Asp Gly Asp			
941 355 360 365			
943 Ala Pro Lys Thr Pro Gly Ser Val Leu His Arg Ser Val Glu Glu Ser			
944 370 375 380			
946 Asp Arg Phe Met Pro Cys Ala Asn Arg Ala Leu Leu Leu Asp Cys Gln			
947 385 390 395 400			
949 Met Ala Gly Asn Ser Ala Ser Leu Val Ala Arg Tyr Asp His Asn Val			
950 405 410 415			
952 Ile Asp Pro Arg Gln Met Ser Arg Phe Leu Arg Gln Leu Gly Tyr Leu			
953 420 425 430			
955 Ile Gln Gln Phe His His His Val Asp Leu Pro Leu Val Lys Glu Leu			
956 435 440 445			
959 Asp Val Val Thr Ala Glu Asp Cys Ala Glu Ile Glu Lys Trp Asn Ser			
960 450 455 460			
962 Glu Arg Leu Thr Met Gln Asp Ala Leu Ile His Asp Thr Ile Ser Lys			
963 465 470 475 480			
965 Trp Ala Ala Gly Asp Pro Asn Lys Ala Ala Val Phe Ala Trp Asp Gly			
966 485 490 495			
968 Glu Trp Thr Tyr Ala Glu Leu Asp Asn Ile Ser Ser Arg Leu Ala Val			
969 500 505 510			
971 Tyr Ile Gln Ser Leu Asp Leu Arg Pro Gly Gln Ala Ile Leu Pro Leu			
972 515 520 525			
974 Cys Phe Glu Lys Ser Lys Trp Val Val Ala Thr Ile Leu Ala Val Leu			
975 530 535 540			
977 Lys Val Gly Arg Ala Phe Thr Leu Ile Asp Pro Cys Asp Pro Ser Ala			
978 545 550 555 560			

Input Set : A:\EP.txt
Output Set: N:\CRF3\03212002\J070387.raw

980 Arg Met Ala Gln Val Cys Gln Gln Thr Ser Ala Thr Val Ala Leu Thr
981 565 570 575
983 Ser Lys Leu His Asn Thr Thr Leu Arg Ser Val Val Ser Arg Cys Ile
984 580 585 590
986 Val Val Asp Asp Asp Leu Leu Arg Ser Leu Pro His Ala Asp Gly Arg
987 595 600 605
989 Leu Lys Ala Thr Val Lys Pro Gln Asp Leu Ala Tyr Val Ile Phe Thr
990 610 615 620
992 Ser Gly Ser Thr Gly Glu Pro Lys Gly Ile Met Ile Glu His Arg Gly
993 625 630 635 640
995 Phe Val Ser Cys Ala Met Lys Phe Gly Pro Ala Leu Gly Met Asp Glu
996 645 650 655
998 His Thr Arg Ala Leu Gln Phe Ala Ser Tyr Ala Phe Gly Ala Cys Leu
999 660 665 670
1001 Val Glu Val Val Thr Ala Leu Met His Gly Gly Cys Val Cys Ile Pro
1002 675 680 685
1004 Ser Asp Asp Asp Arg Leu Asn Asn Val Pro Glu Phe Ile Lys Arg Ala
1005 690 695 700
1007 Gln Val Asn Trp Val Ile Leu Thr Pro Ser Tyr Ile Gly Thr Phe Gln
1008 705 710 715 720
1010 Pro Glu Asp Val Pro Gly Leu Gln Thr Leu Val Leu Val Gly Glu Pro
1011 725 730 735
1013 Ile Ser Ala Ser Ile Arg Asp Thr Trp Ala Ser Gln Val Arg Leu Leu
1014 740 745 750
1017 Asn Ala Tyr Gly Gln Ser Glu Ser Ser Thr Met Cys Ser Val Thr Glu
1018 755 760 765
1020 Val Ser Pro Leu Ser Leu Glu Pro Asn Asn Ile Gly Arg Ala Val Gly
1021 770 775 780
1023 Ala Arg Ser Trp Ile Ile Asp Pro Asp Glu Pro Asp Arg Leu Ala Pro
1024 785 790 795 800
1026 Ile Gly Cys Ile Gly Glu Leu Val Ile Glu Ser Pro Gly Ile Ala Arg
1027 805 810 815
1029 Asp Tyr Ile Ile Ala Pro Pro Pro Asp Lys Ser Pro Phe Leu Leu Ala
1030 820 825 830
1032 Pro Pro Ala Trp Tyr Pro Ala Gly Lys Leu Ser Asn Ala Phe Lys Phe
1033 835 840 845
1035 Tyr Lys Thr Gly Asp Leu Val Arg Tyr Gly Pro Asp Gly Thr Ile Val
1036 850 855 860
1038 Cys Leu Gly Arg Lys Asp Ser Gln Val Lys Ile Arg Gly Gln Arg Val
1039 865 870 875 880
1041 Glu Ile Ser Ala Val Glu Ala Ser Leu Arg Arg Gln Leu Pro Ser Asp
1042 885 890 895
1044 Ile Met Pro Val Ala Glu Ala Ile Lys Arg Ser Asp Ser Ser Gly Ser
1045 900 905 910
1048 Thr Val Leu Thr Ala Phe Leu Ile Gly Ser Ser Lys Ser Gly Asp Gly
1049 915 920 925
1051 Asn Gly His Ala Leu Ser Ala Ala Asp Ala Val Ile Leu Asp His Gly
1052 930 935 940
1054 Ala Thr Asn Glu Ile Asn Ala Lys Leu Gln Gln Ile Leu Pro Gln His

Input Set : A:\EP.txt
Output Set: N:\CRF3\03212002\J070387.raw

1055 945 950 955 960
1057 Ser Val Pro Ser Tyr Tyr Ile His Met Glu Asn Leu Pro Arg Thr Ala
1058 965 970 975
1060 Thr Gly Lys Ala Asp Arg Lys Met Leu Arg Ser Ile Ala Ser Lys Leu
1061 980 985 990
1063 Leu Gly Glu Leu Ser Gln Asn Val Thr Ser Gln Pro Ile Glu Lys His
1064 995 1000 1005
1066 Asp Ala Pro Ala Thr Gly Ile Glu Val Lys Leu Lys Glu Leu Trp Phe
1067 1010 1015 1020
1069 ~~Leu~~ Ser Leu Asn Leu Asn Pro Asn Ser Gln Asp Val Gly Ala Ser Phe
-> 1070 025 1030 1035 1040
1072 ~~Phe~~ Asp Leu Gly Gly Asn Ser Ile Ile Ala Ile Lys Met Val Asn Met
1073 1045 1050 1055
1075 Ala Arg Ser Ala Gly Ile Ala Leu Lys Val Ser Asp Ile Phe Gln Asn
1076 1060 1065 1070
1078 Pro Thr Leu Ala Gly Leu Val Asp Val Ile Gly Arg Asp Pro Ala Pro
1079 1075 1080 1085
1081 Tyr Asn Leu Ile Pro Thr Thr Ala Tyr Ser Gly Pro Val Glu Gln Ser
1082 1090 1095 1100
1084 ~~Phe~~ Ala Gln Gly Arg Leu Trp Phe Leu Asp Gln Ile Glu Leu Asp Ala
-> 1085 105 1110 1115 1120
1087 ~~Leu~~ Trp Tyr Leu Leu Pro Tyr Ala Val Arg Met Arg Gly Pro Leu His
1088 1125 1130 1135
1090 Ile Asp Ala Leu Thr Ile Ala Leu Leu Ala Ile Gln Gln Arg His Glu
1091 1140 1145 1150
1093 Thr Leu Arg Thr Thr Phe Glu Glu Gln Asp Gly Val Gly Val Gln Val
1094 1155 1160 1165
1096 Val His Ala Ser Pro Ile Ser Asp Leu Arg Ile Ile Asp Val Ser Gly
1097 1170 1175 1180
1099 ~~Asp~~ Arg Asn Ser Asp Tyr Leu Gln Leu His Gln Glu Gln Thr Thr
-> 1100 185 1190 1195 1200
1102 ~~Pro~~ Phe Ile Leu Ala Cys Gln Ala Gly Trp Arg Val Ser Leu Ile Arg
1103 1205 1210 1215
1106 Leu Gly Glu Asp Asp His Ile Leu Ser Ile Val Met His His Ile Ile
1107 1220 1225 1230
1109 Ser Asp Gly Trp Ser Ile Asp Ile Leu Arg Arg Glu Leu Ser Asn Phe
1110 1235 1240 1245
1112 Tyr Ser Ala Ala Leu Arg Gly Ser Asp Pro Leu Ser Val Val Ser Pro
1113 1250 1255 1260
1115 Leu Pro Leu His Tyr Arg Asp Phe Ser Val Trp Gln Lys Gln Val Glu
-> 1116 265 1270 1275 1280
1118 ~~Gln~~ Glu Thr Glu His Glu Arg Gln Leu Glu Tyr Trp Val Lys Gln Leu
1119 1285 1290 1295
1121 Ala Asp Ser Ser Ala Ala Glu Phe Leu Thr Asp Phe Pro Arg Pro Asn
1122 1300 1305 1310
1124 Ile Leu Ser Gly Glu Ala Gly Ser Val Pro Val Thr Ile Glu Gly Glu
1125 1315 1320 1325
1127 Leu Tyr Glu Arg Leu Gln Glu Phe Cys Lys Val Glu Gln Met Thr Pro
1128 1330 1335 1340

Amino Acid
numbers, > 999
on the left hand
margin, must
start on the
left side of the
amino acid
3 letter code
and proceed
in. The number
may not overlap
the next 3 letter
amino acid code

The type of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

Input Set : A:\EP.txt
Output Set: N:\CRF3\03212002\J070387.raw

1354 2515 2520 2525
1356 Ile Val Val Ile Asp Gln Met Pro Leu Asn Ala Asn Gly Lys Val Asp
1357 2530 2535 2540
1359 Arg Lys Glu Leu Thr Arg Arg Ala Gln Ile Ala Pro Lys Ser Gln Ala
-> 1360 545 2550 2555 2560
1362 Ala Pro Ala Lys Pro Val Lys Gln Val Asp Pro Phe Val Asn Leu Glu
1363 2565 2570 2575
1365 Ala Ile Leu Cys Glu Glu Phe Ala Glu Val Leu Gly Met Glu Val Gly
1366 2580 2585 2590
1368 Val Asn Asp His Phe Phe Gln Leu Gly Gly His Ser Leu Leu Ala Thr
1369 2595 2600 2605
1371 Lys Leu Val Ala Arg Leu Ser Arg Arg Leu Asn Gly Arg Val Ser Val
1372 2610 2615 2620
1374 Arg Asp Val Phe Asp Gln Pro Val Ile Ser Asp Leu Ala Val Thr Leu
-> 1375 625 2630 2635 2640
1377 Arg Gln Gly Leu Thr Leu Glu Asn Ala Ile Pro Ala Thr Pro Asp Ser
1378 2645 2650 2655
1380 Gly Tyr Trp Glu Gln Thr Met Ser Ala Pro Thr Thr Pro Ser Asp Asp
1381 2660 2665 2670
1383 Met Glu Ala Val Leu Cys Lys Glu Phe Ala Asp Val Leu Gly Val Glu
1384 2675 2680 2685
1386 Val Ser Ala Thr Asp Ser Phe Phe Asp Leu Gly Gly His Ser Leu Met
1387 2690 2695 2700
1389 Ala Thr Lys Leu Ala Ala Arg Ile Ser Arg Arg Leu Asp Val Pro Val
-> 1390 705 2710 2715 2720
1392 Ser Ile Lys Asp Ile Phe Asp His Ser Val Pro Leu Asn Leu Ala Arg
1393 2725 2730 2735
1396 Lys Ile Arg Leu Thr Gln Ala Lys Gly His Glu Ala Thr Asn Gly Val
1397 2740 2745 2750
1399 Gln Ile Ala Asn Asp Ala Pro Phe Gln Leu Ile Ser Val Glu Asp Pro
1400 2755 2760 2765
1402 Glu Ile Phe Val Gln Arg Glu Ile Ala Pro Gln Leu Gln Cys Ser Pro
1403 2770 2775 2780
1405 Glu Thr Ile Leu Asp Val Tyr Pro Ala Thr Gln Met Gln Arg Val Phe
-> 1406 785 2790 2795 2800
1408 Leu Leu Asn Pro Val Thr Gly Lys Pro Arg Ser Pro Thr Pro Phe His
1409 2805 2810 2815
1411 Ile Asp Phe Pro Pro Asp Ala Asp Cys Ala Ser Leu Met Arg Ala Cys
1412 2820 2825 2830
1414 Ala Ser Leu Ala Lys His Phe Asp Ile Phe Arg Thr Val Phe Leu Glu
1415 2835 2840 2845
1417 Ala Arg Gly Glu Leu Tyr Gln Val Val Leu Lys His Val Asp Val Pro
1418 2850 2855 2860
1420 Ile Glu Met Leu Gln Thr Glu Glu Asn Ile Asn Ser Ala Thr Arg Ser
-> 1421 865 2870 2875 2880
1423 Phe Leu Asp Val Asp Ala Glu Lys Pro Ile Arg Leu Gly Gln Pro Leu
1424 2885 2890 2895
1426 Ile Arg Ile Ala Ile Leu Glu Lys Pro Gly Ser Thr Leu Arg Val Ile
1427 2900 2905 2910

See page 4

RAW SEQUENCE ING
PATENT APPLICATION: US/10/070,387

DATE: 21/2002
TIME: 14:51:32

Input Set : A:\EP.txt
Output Set: N:\CRF3\03212002\J070387.raw

1429 Leu Arg Leu Ser His Ala Leu Tyr Asp Gly Leu Ser Leu Glu His Ile
1430 2915 2920 2925
1432 Leu His Ser Leu His Ile Leu Phe Phe Gly Gly Ser Leu Pro Pro Pro
1433 2930 2935 2940
1435 Pro Lys Phe Ala Gly Tyr Met Gln His Val Ala Ser Ser Arg Arg Glu
-> 1436 945 2950 2955 2960
1438 Gly Tyr Asp Phe Trp Arg Ser Val Leu Arg Asp Ser Ser Met Thr Val
1439 2965 2970 2975
1441 Ile Lys Gly Asn Asn Asn Thr Thr Pro Pro Pro Pro Gln Gln Gln
1442 2980 2985 2990
1444 Ser Thr Pro Ser Gly Ala His His Ala Ser Lys Val Val Thr Ile Pro
1445 2995 3000 3005
1447 Thr Gln Ala Asn Thr Asp Ser Arg Ile Thr Arg Ala Thr Ile Phe Thr
1448 3010 3015 3020
1450 Thr Ala Cys Ala Leu Met Leu Ala Lys Glu Asp Asn Ser Ser Asp Val
-> 1451 025 3030 3035 3040
1454 Val Phe Gly Arg Thr Val Ser Gly Arg Gln Gly Leu Pro Leu Ala His
1455 3045 3050 3055
1457 Gln Asn Val Ile Gly Pro Cys Leu Asn Gln Val Pro Val Arg Ala Arg
1458 3060 3065 3070
1460 Gly Leu Asn Arg Gly Thr Thr His His Arg Glu Leu Leu Arg Glu Met
1461 3075 3080 3085
1463 Gln Glu Gln Tyr Leu Asn Ser Leu Ala Phe Glu Thr Leu Gly Tyr Asp
1464 3090 3095 3100
1466 Glu Ile Lys Ala His Cys Thr Asp Trp Pro Asp Val Pro Ala Thr Ala
-> 1467 105 3110 3115 3120
1469 Ser Phe Gly Cys Cys Ile Val Tyr Gln Asn Phe Asp Ser His Pro Asp
1470 3125 3130 3135
1472 Ser Arg Val Glu Glu Gln Arg Leu Gln Ile Gly Val Leu Ser Arg Asn
1473 3140 3145 3150
1475 Tyr Glu Ala Ile Asn Glu Gly Leu Val His Asp Leu Val Ile Ala Gly
1476 3155 3160 3165
1478 Glu Ser Glu Pro Asp Gly Asp Asp Leu Arg Val Thr Val Val Ala Asn
1479 3170 3175 3180
1481 Arg Arg Leu Cys Asp Glu Glu Arg Leu Lys Arg Met Leu Glu Glu Leu
-> 1482 185 3190 3195 3200
1484 Cys Gly Asn Ile Arg Ala Leu Ala Leu Val
1485 3205 3210

see page 4

<210> 5
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer for cyclic depsipeptide synthetase gene

<400> 5
tggacnwsna tgtaygaygg 20

<210> 6
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer for cyclic depsipeptide synthetase gene

<400> 6
gtnggraart aytna~~nac~~c 20

All 'n' must have feature with
numeric identifiers <220>-<223>.
See item #9 on error summary
sheet.

VERIFICATION MARY
PATENT APPLICATION: US/10/070,387

DATE: 1/2002
TIME: 14:51:33

Input Set : A:\EP.txt
Output Set: N:\CRF3\03212002\J070387.raw

11 M:270 C: Current Application Number differs, Replaced Current Application No
11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
38 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
42 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
46 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
50 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
54 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
58 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
62 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
66 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
70 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
74 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
78 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
82 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
86 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
91 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
95 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
99 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
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128 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
132 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
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186 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
190 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
194 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
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202 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
207 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
211 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
215 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
219 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
223 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/070,387

DATE: 21/2002
TIME: 51:33

Input Set : A:\EP.txt
Output Set: N:\CRF3\03212002\J070387.raw

:227 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
:231 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
:236 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
:240 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
:1070 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
:332 Repeated in SeqNo=2
:1523 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:5
:1523 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:5
:1523 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
:1536 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:6
:1536 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:6
:1536 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6

Input Set : A:\EP.txt
Output Set: N:\CRF3\03212002\J070387.raw

1280 Asp Asp Thr Met Arg Thr Leu Leu Asp Gly Gln Ala Pro Gly His Val
1281 2130 2135 2140
1283 Leu Glu Ile Gly Thr Gly Ser Gly Met Val Leu Phe Asn Leu Gly Ala
--> 1284 145 2150 2155 2160
1286 Gly Leu Gln Ser Tyr Val Gly Leu Glu Pro Ser Arg Ser Ala Ala Thr
1287 2165 2170 2175
1289 Phe Val Thr Lys Ala Ile Asn Ser Thr Pro Ala Leu Ala Gly Lys Ala
1290 2180 2185 2190
1292 Glu Val His Val Gly Thr Ala Thr Asp Ile Asn Arg Leu Arg Gly Leu
1293 2195 2200 2205
1295 Arg Pro Asp Leu Val Val Leu Asn Ser Val Val Gln Tyr Phe Pro Thr
1296 2210 2215 2220
1298 Pro Glu Tyr Leu Leu Glu Val Val Glu Ser Leu Val Arg Ile Pro Gly
-> 1299 225 2230 2235 2240
1301 Val Lys Arg Val Val Phe Gly Asp Ile Arg Ser His Ala Thr Asn Arg
1302 2245 2250 2255
1304 His Phe Leu Ala Ala Arg Ala Leu His Ser Leu Gly Ser Lys Ala Thr
1305 2260 2265 2270
1307 Lys Asp Ala Ile Arg Gln Lys Met Thr Glu Met Glu Glu Arg Glu Glu
1308 2275 2280 2285
1310 Glu Leu Leu Val Asp Pro Ala Phe Phe Thr Ala Leu Leu Gln Gly Gln
1311 2290 2295 2300
1313 Leu Ala Asp Arg Ile Lys His Val Glu Ile Leu Pro Lys Asn Met Arg
-> 1314 305 2310 2315 2320
1316 Ala Thr Asn Glu Leu Ser Ala Tyr Arg Tyr Thr Ala Val Ile His Val
1317 2325 2330 2335
1319 Arg Gly Pro Glu Glu Gln Ser Arg Pro Val Tyr Pro Ile Gln Val Asn
1320 2340 2345 2350
1322 Asp Trp Ile Asp Phe Gln Ala Ser Arg Ile Asp Arg Arg Ala Leu Leu
1323 2355 2360 2365
1325 Arg Leu Leu Gln Arg Ser Ala Asp Ala Ala Thr Val Ala Val Ser Asn
1326 2370 2375 2380
1328 Ile Pro Tyr Ser Lys Thr Ile Val Glu Arg His Val Val Glu Ser Leu
-> 1329 385 2390 2395 2400
1331 Asp Asn Asn Asn Arg Glu Asn Thr His Arg Ala Pro Asp Gly Ala Ala
1332 2405 2410 2415
1334 Trp Ile Ser Ala Val Arg Ser Lys Ala Glu Arg Cys Thr Ser Leu Ser
1335 2420 2425 2430
1338 Val Thr Asp Leu Val Gln Leu Gly Glu Glu Ala Gly Phe Arg Val Glu
1339 2435 2440 2445
1341 Val Ser Ala Ala Arg Gln Trp Ser Gln Ser Gly Ala Leu Asp Ala Val
1342 2450 2455 2460
1344 Phe His Arg Tyr Asn Leu Pro Thr Gln Ser Asn Ser Arg Val Leu Ile
-> 1345 465 2470 2475 2480
1347 Gln Phe Pro Thr Glu Asp Gly Gln Thr Arg Arg Ser Ala Thr Leu Thr
1348 2485 2490 2495
1350 Asn Arg Pro Leu Gln Arg Leu Gln Ser Arg Arg Phe Ala Ser Gln Ile
1351 2500 2505 2510
1353 Arg Glu Gln Leu Lys Ala Val Leu Pro Ser Tyr Met Ile Pro Ser Arg

Input Set : A:\EP.txt
Output Set: N:\CRF3\03212002\J070387.raw

1130 Phe Ala Val Leu Leu Gly Ala Phe Arg Ala Thr His Tyr Arg Leu Thr
--> 1131 345 1350 1355 1360
1133 Gly Ala Glu Asp Ser Ile Ile Gly Thr Pro Ile Ala Asn Arg Asn Arg
1134 1365 1370 1375
1136 Gln Glu Leu Glu Asn Met Ile Gly Phe Phe Val Asn Thr Gln Cys Met
1137 1380 1385 1390
1139 Arg Ile Thr Val Asp Gly Asp Asp Thr Phe Glu Ser Leu Val Arg Gln
1140 1395 1400 1405
1142 Val Arg Thr Thr Ala Ala Phe Glu His Gln Asp Val Pro Phe
1143 1410 1415 1420
1145 Glu Arg Val Val Thr Ala Leu Leu Pro Arg Ser Arg Asp Leu Ser Arg
--> 1146 425 1430 1435 1440
1148 Asp Pro Leu Ala Gln Leu Thr Phe Ala Leu His Ser Gln Gln Asp Leu
1149 1445 1450 1455
1151 Gly Lys Phe Glu Leu Glu Gly Leu Val Ala Glu Pro Val Ser Asn Lys
1152 1460 1465 1470
1154 Val Tyr Thr Arg Phe Asp Val Glu Phe His Leu Phe Gln Glu Ala Gly
1155 1475 1480 1485
1157 Arg Leu Ser Gly Asn Val Ala Phe Ala Ala Asp Leu Phe Lys Pro Glu
1158 1490 1495 1500
1160 Thr Ile Ser Asn Val Val Ala Ile Phe Phe Gln Ile Leu Arg Gln Gly
-> 1161 505 1510 1515 1520
1164 Ile Arg Gln Pro Arg Thr Pro Ile Ala Val Leu Pro Leu Thr Asp Gly
1165 1525 1530 1535
1167 Leu Ala Asp Leu Arg Ala Met Gly Leu Leu Glu Ile Glu Lys Ala Glu
1168 1540 1545 1550
1170 Tyr Pro Arg Glu Ser Ser Val Val Asp Val Phe Arg Lys Gln Val Ala
1171 1555 1560 1565
1173 Ala His Pro His Ala Phe Ala Val Val Asp Ser Ala Ser Arg Leu Thr
1174 1570 1575 1580
1176 Tyr Ala Asp Leu Asp Arg Gln Ser Asp Gln Leu Ala Thr Trp Leu Gly
-> 1177 585 1590 1595 1600
1179 Arg Arg Asn Met Thr Ala Glu Thr Leu Val Gly Val Leu Ala Pro Arg
1180 1605 1610 1615
1182 Ser Cys Gln Thr Val Val Ala Ile Leu Gly Ile Leu Lys Ala Asn Leu
1183 1620 1625 1630
1185 Ala Tyr Leu Pro Leu Asp Val Asn Cys Pro Thr Ala Arg Leu Gln Thr
1186 1635 1640 1645
1188 Ile Leu Ser Thr Leu Asn Arg His Lys Leu Val Leu Leu Gly Ser Asn
1189 1650 1655 1660
1191 Ala Thr Thr Pro Asp Val Gln Ile Pro Asp Val Glu Leu Val Arg Ile
-> 1192 665 1670 1675 1680
1194 Ser Asp Ile Leu Asp Arg Pro Ile Asn Gly Gln Ala Lys Leu Asn Gly
1195 1685 1690 1695
1197 His Thr Lys Ser Asn Gly Tyr Ser Lys Pro Asn Gly Tyr Thr His Leu
1198 1700 1705 1710
1200 Lys Gly Tyr Ser Asn Leu Asn Gly Tyr Ser Lys Gln Asn Gly Tyr Ala
1201 1715 1720 1725
1203 Gln Leu Asn Gly His Arg Glu Arg Asn Asn Tyr Leu Asp Leu Asn Gly

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Input Set : A:\EP.txt
Output Set: N:\CRF3\03212002\J070387.raw

1204 1730 1735 1740
1206 His Ser Leu Leu Asn Gly Asn Ser Asp Ile Thr Thr Ser Gly Pro Ser
-> 1207 745 1750 1755 1760
1209 Ala Thr Ser Leu Ala Tyr Val Ile Phe Thr Ser Gly Ser Thr Gly Lys
1210 1765 1770 1775
1212 Pro Lys Gly Val Met Val Glu His Arg Ser Ile Ile Arg Leu Ala Lys
1213 1780 1785 1790
1215 Lys Asn Arg Ile Ile Ser Arg Phe Pro Ser Val Ala Lys Val Ala His
1216 1795 1800 1805
1218 Leu Ser Asn Ile Ala Phe Asp Ala Ala Thr Trp Glu Met Phe Ala Ala
1219 1810 1815 1820
1222 Leu Leu Asn Gly Gly Thr Leu Val Cys Ile Asp Tyr Met Thr Thr Leu
-> 1223 825 1830 1835 1840
1225 Asp Ser Lys Thr Leu Glu Ala Ala Phe Ala Arg Glu Gln Ile Asn Ala
1226 1845 1850 1855
1228 Ala Leu Leu Thr Pro Ala Leu Leu Lys Gln Cys Leu Ala Asn Ile Pro
1229 1860 1865 1870
1231 Thr Thr Leu Gly Arg Leu Ser Ala Leu Val Ile Gly Gly Asp Arg Leu
1232 1875 1880 1885
1234 Asp Gly Gln Asp Ala Ile Ala Ala His Ala Leu Val Gly Ala Gly Val
1235 1890 1895 1900
1237 Tyr Asn Ala Tyr Gly Pro Thr Glu Asn Gly Val Ile Ser Thr Ile Tyr
-> 1238 905 1910 1915 1920
1240 Asn Ile Thr Lys Asn Asp Ser Phe Ile Asn Gly Val Pro Ile Gly Cys
1241 1925 1930 1935
1243 Ala Ile Ser Asn Ser Gly Ala Tyr Ile Thr Asp Pro Asp Gln Gln Leu
1244 1940 1945 1950
1246 Val Pro Pro Gly Val Met Gly Glu Leu Val Val Thr Gly Asp Gly Leu
1247 1955 1960 1965
1249 Ala Arg Gly Tyr Thr Asp Pro Ala Leu Asp Ala Gly Arg Phe Val Gln
1250 1970 1975 1980
1252 Ile Met Ile Asn Asp Lys Ala Val Arg Ala Tyr Arg Thr Gly Asp Arg
-> 1253 985 1990 1995 2000
1255 Ala Arg Tyr Arg Val Gly Asp Gly Gln Ile Glu Phe Phe Gly Arg Met
1256 2005 2010 2015
1258 Asp Gln Gln Val Lys Ile Arg Gly His Arg Ile Glu Pro Ala Glu Val
1259 2020 2025 2030
1261 Glu Arg Ala Ile Leu Asp Gln Asp Ser Ala Arg Asp Ala Val Val Val
1262 2035 2040 2045
1264 Ile Arg His Gln Glu Gly Glu Glu Pro Glu Met Val Gly Phe Val Ala
1265 2050 2055 2060
1267 Thr His Gly Asp His Ser Ala Glu Gln Glu Ala Asp Asp Gln Val
-> 1268 065 2070 2075 2080
1270 Glu Gly Trp Lys Asp Phe Phe Glu Ser Asn Thr Tyr Ala Asp Met Asp
1271 2085 2090 2095
1273 Thr Ile Gly Gln Ser Ala Ile Gly Asn Asp Phe Thr Gly Trp Thr Ser
1274 2100 2105 2110
1276 Met Tyr Asp Gly Ser Glu Ile Asn Lys Ala Glu Met Gln Glu Trp Leu
1277 2115 2120 2125

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